

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 09/770/169E

Source: FW16

Date Processed by STIC: 5/4/06

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 05/04/2006

PATENT APPLICATION: US/09/770,169E

TIME: 10:59:42

Input Set : N:\Crf4\05032006\I770169D.raw

Output Set: N:\CRF4\05042006\I770169E.raw

1 <110> APPLICANT: Saxon, Andrew  
 2 Zhang, Ke  
 3 <120> TITLE OF INVENTION: IMMUNOGLOBULIN CLASS SWITCH  
 4 RECOMBINATION  
 5 <130> FILE REFERENCE: 39754-0531 A  
 C--> 6 <140> CURRENT APPLICATION NUMBER: US/09/770,169E  
 7 <141> CURRENT FILING DATE: 2001-01-26  
 8 <160> NUMBER OF SEQ ID NOS: 115  
 9 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 11 <210> SEQ ID NO: 1  
 12 <211> LENGTH: 27  
 13 <212> TYPE: DNA  
 14 <213> ORGANISM: Artificial Sequence  
 15 <220> FEATURE:  
 16 <223> OTHER INFORMATION: synthetic oligonucleotide  
 17 <400> SEQUENCE: 1  
 18 ttgtccaggc cggcagcatc accggag 27  
 20 <210> SEQ ID NO: 2  
 21 <211> LENGTH: 31  
 22 <212> TYPE: DNA  
 23 <213> ORGANISM: Artificial Sequence  
 24 <220> FEATURE:  
 25 <223> OTHER INFORMATION: synthetic oligonucleotide  
 26 <400> SEQUENCE: 2  
 27 actcctcagt gggatggcct ctacactccc t 31  
 29 <210> SEQ ID NO: 3  
 30 <211> LENGTH: 22  
 31 <212> TYPE: DNA  
 32 <213> ORGANISM: Artificial Sequence  
 33 <220> FEATURE:  
 34 <223> OTHER INFORMATION: synthetic oligonucleotide  
 35 <400> SEQUENCE: 3  
 36 ctagaagctt tattgcggta gt 22  
 38 <210> SEQ ID NO: 4  
 39 <211> LENGTH: 24  
 40 <212> TYPE: DNA  
 41 <213> ORGANISM: Artificial Sequence  
 42 <220> FEATURE:  
 43 <223> OTHER INFORMATION: synthetic oligonucleotide  
 44 <400> SEQUENCE: 4  
 45 cgacaagctt agtttctatt ggtc 24  
 47 <210> SEQ ID NO: 5  
 48 <211> LENGTH: 28

## RAW SEQUENCE LISTING

DATE: 05/04/2006

PATENT APPLICATION: US/09/770,169E

TIME: 10:59:42

Input Set : N:\Cr4\05032006\I770169D.raw

Output Set: N:\CRF4\05042006\I770169E.raw

```

49 <212> TYPE: DNA
50 <213> ORGANISM: Artificial Sequence
51 <220> FEATURE:
52 <223> OTHER INFORMATION: synthetic oligonucleotide
53 <400> SEQUENCE: 5
54     actcagatgg ctaaactgag cctaagct                28
56 <210> SEQ ID NO: 6
57 <211> LENGTH: 26
58 <212> TYPE: DNA
59 <213> ORGANISM: Artificial Sequence
60 <220> FEATURE:
61 <223> OTHER INFORMATION: synthetic oligonucleotide
62 <400> SEQUENCE: 6
63     atgtttcagg ttcaggggga ggtgtg                26
65 <210> SEQ ID NO: 7
66 <211> LENGTH: 24
67 <212> TYPE: DNA
68 <213> ORGANISM: Artificial Sequence
69 <220> FEATURE:
70 <223> OTHER INFORMATION: synthetic oligonucleotide
71 <400> SEQUENCE: 7
72     gagcctagac taacaggctg aact                24
74 <210> SEQ ID NO: 8
75 <211> LENGTH: 30
76 <212> TYPE: DNA
77 <213> ORGANISM: Artificial Sequence
78 <220> FEATURE:
79 <223> OTHER INFORMATION: synthetic oligonucleotide
80 <400> SEQUENCE: 8
81     actcctcagt gggatggact cacactccct            30
83 <210> SEQ ID NO: 9
84 <211> LENGTH: 28
85 <212> TYPE: DNA
86 <213> ORGANISM: Artificial Sequence
87 <220> FEATURE:
88 <223> OTHER INFORMATION: synthetic oligonucleotide
89 <400> SEQUENCE: 9
90     aagctttatt gcggtagttt atcacagt            28
92 <210> SEQ ID NO: 10
93 <211> LENGTH: 27
94 <212> TYPE: DNA
95 <213> ORGANISM: Artificial Sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: synthetic oligonucleotide
98 <400> SEQUENCE: 10
99     ccaagatctc caggcaggca gaagtat            27
101 <210> SEQ ID NO: 11
102 <211> LENGTH: 29
103 <212> TYPE: DNA

```

## RAW SEQUENCE LISTING

DATE: 05/04/2006

PATENT APPLICATION: US/09/770,169E

TIME: 10:59:42

Input Set : N:\Crf4\05032006\I770169D.raw

Output Set: N:\CRF4\05042006\I770169E.raw

```

104 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: synthetic oligonucleotide
107 <400> SEQUENCE: 11
108      cccaactagt cttagcctga tacaacctg      29
110 <210> SEQ ID NO: 12
111 <211> LENGTH: 27
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial Sequence
114 <220> FEATURE:
115 <223> OTHER INFORMATION: synthetic oligonucleotide
116 <400> SEQUENCE: 12
117      ttgtccaggc catcagcatc actggag      27
119 <210> SEQ ID NO: 13
120 <211> LENGTH: 25
121 <212> TYPE: DNA
122 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: synthetic oligonucleotide
125 <400> SEQUENCE: 13
126      agctgtccag gaacccgaca gggag      25
128 <210> SEQ ID NO: 14
129 <211> LENGTH: 21
130 <212> TYPE: DNA
131 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:
133 <223> OTHER INFORMATION: synthetic oligonucleotide
134 <400> SEQUENCE: 14
135      gttgatagtc cctgggggtgt a      21
137 <210> SEQ ID NO: 15
138 <211> LENGTH: 25
139 <212> TYPE: DNA
140 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:
142 <223> OTHER INFORMATION: synthetic oligonucleotide
143 <400> SEQUENCE: 15
144      tgtcccttag aggacaggtg gccaa      25
146 <210> SEQ ID NO: 16
147 <211> LENGTH: 24
148 <212> TYPE: DNA
149 <213> ORGANISM: Artificial Sequence
150 <220> FEATURE:
151 <223> OTHER INFORMATION: synthetic oligonucleotide
152 <400> SEQUENCE: 16
153      tctagacaag gggacctgct catt      24
155 <210> SEQ ID NO: 17
156 <211> LENGTH: 29
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial Sequence

```

## RAW SEQUENCE LISTING

DATE: 05/04/2006

PATENT APPLICATION: US/09/770,169E

TIME: 10:59:42

Input Set : N:\Cr4\05032006\I770169D.raw

Output Set: N:\CRF4\05042006\I770169E.raw

```

159 <220> FEATURE:
160 <223> OTHER INFORMATION: synthetic oligonucleotide
161 <400> SEQUENCE: 17
162     ttatcccagc agaactcagt ttaaatacac                29
164 <210> SEQ ID NO: 18
165 <211> LENGTH: 22
166 <212> TYPE: DNA
167 <213> ORGANISM: Artificial Sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: synthetic oligonucleotide
170 <400> SEQUENCE: 18
171     gccagttca gttaacctca ac                22
173 <210> SEQ ID NO: 19
174 <211> LENGTH: 40
175 <212> TYPE: DNA
176 <213> ORGANISM: Homo sapiens
177 <400> SEQUENCE: 19
178     tgggctgagc tgggctgggc tgggctgggc tgagcgggctc    40
180 <210> SEQ ID NO: 20
181 <211> LENGTH: 40
182 <212> TYPE: DNA
183 <213> ORGANISM: Homo sapiens
184 <400> SEQUENCE: 20
185     tgggctgagc tgggctgggtg gaaggcagga cgagcagggg    40
187 <210> SEQ ID NO: 21
188 <211> LENGTH: 39
189 <212> TYPE: DNA
190 <213> ORGANISM: Homo sapiens
191 <400> SEQUENCE: 21
192     cagccacagg tgagcaggcc gtgagcagac gagcagggga    39
194 <210> SEQ ID NO: 22
195 <211> LENGTH: 40
196 <212> TYPE: DNA
197 <213> ORGANISM: Homo sapiens
198 <400> SEQUENCE: 22
199     ctaacaggct gaactgggct gagctgagct gaactgggct    40
201 <210> SEQ ID NO: 23
202 <211> LENGTH: 40
203 <212> TYPE: DNA
204 <213> ORGANISM: Homo sapiens
205 <400> SEQUENCE: 23
206     ctaacaggct gaactgggct ggcaggagct gggtagttgc    40
208 <210> SEQ ID NO: 24
209 <211> LENGTH: 40
210 <212> TYPE: DNA
211 <213> ORGANISM: Homo sapiens
212 <400> SEQUENCE: 24
213     tcactcagct cctagatttt ggcaggagct gggtagttgc    40
215 <210> SEQ ID NO: 25

```

## RAW SEQUENCE LISTING

DATE: 05/04/2006

PATENT APPLICATION: US/09/770,169E

TIME: 10:59:42

Input Set : N:\Crf4\05032006\I770169D.raw

Output Set: N:\CRF4\05042006\I770169E.raw

```

216 <211> LENGTH: 40
217 <212> TYPE: DNA
218 <213> ORGANISM: Homo sapiens
219 <400> SEQUENCE: 25
220      ttgaactggg ttgagctgag ctgagctgag ctgggctaag      40
222 <210> SEQ ID NO: 26
223 <211> LENGTH: 40
224 <212> TYPE: DNA
225 <213> ORGANISM: Homo sapiens
226 <400> SEQUENCE: 26
227      ttgaactggg ttgagctgag cagagcagag gccactgagg      40
229 <210> SEQ ID NO: 27
230 <211> LENGTH: 40
231 <212> TYPE: DNA
232 <213> ORGANISM: Homo sapiens
233 <400> SEQUENCE: 27
234      cgttcacgga gctgaccag cagagcagag gccactgagg      40
236 <210> SEQ ID NO: 28
237 <211> LENGTH: 39
238 <212> TYPE: DNA
239 <213> ORGANISM: Homo sapiens
240 <400> SEQUENCE: 28
241      tgggctgggc tgagcggctc agcgggctga gctgagctg      39
243 <210> SEQ ID NO: 29
244 <211> LENGTH: 40
245 <212> TYPE: DNA
246 <213> ORGANISM: Homo sapiens
247 <400> SEQUENCE: 29
248      tgggctgggc tgagcgggtc agcctcctgg tgccgggaag      40
250 <210> SEQ ID NO: 30
251 <211> LENGTH: 40
252 <212> TYPE: DNA
253 <213> ORGANISM: Homo sapiens
254 <400> SEQUENCE: 30
255      ggctggtgaa agtgcagtgc agcctcctgg tgccaggaag      40
257 <210> SEQ ID NO: 31
258 <211> LENGTH: 40
259 <212> TYPE: DNA
260 <213> ORGANISM: Homo sapiens
261 <400> SEQUENCE: 31
262      agggagctga cccagcagag cagaggccac tgaggagctg      40
264 <210> SEQ ID NO: 32
265 <211> LENGTH: 40
266 <212> TYPE: DNA
267 <213> ORGANISM: Homo sapiens
268 <400> SEQUENCE: 32
269      agggagctga cccagcagag ctgagcgggg ccgagcgggg      40
271 <210> SEQ ID NO: 33
272 <211> LENGTH: 39

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/770,169E

DATE: 05/04/2006  
TIME: 10:59:43

Input Set : N:\Crf4\05032006\I770169D.raw  
Output Set: N:\CRF4\05042006\I770169E.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:111; N Pos. 1

VERIFICATION SUMMARY

DATE: 05/04/2006

PATENT APPLICATION: US/09/770,169E

TIME: 10:59:43

Input Set : N:\Crf4\05032006\I770169D.raw

Output Set: N:\CRF4\05042006\I770169E.raw

L:6 M:270 C: Current Application Number differs, Wrong Format

L:826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111 after pos.:0